

Announcing
**HERCULES TRACTOR-DRIVE
STUMP PULLER**





HERCULES TRACTOR-

The Hercules Manufacturing Company is pleased to report that the new Hercules Tractor-drive Stump Puller has proved extremely successful. Its easy efficient operation makes it even faster and easier to operate than the famous Hercules Horse Power pullers. This machine was developed to meet the demand for a tractor-operated stump puller which has been steadily increasing for a number of years, with the increased use of tractors. Many years of actual field experience in operating hand and horse power machines have taught our engineers a number of important principles that must be followed in designing a successful tractor-drive puller, and it was with these principles in mind that they set out to design the Hercules Tractor-Drive Stump Puller.

First: The new machine must be suitable for operation with any standard make of farm tractor, either caterpillar or wheel type.

Second: It was important that no change, dismantling, or alteration be necessary in the tractor. It must be as easy to hitch the tractor to the puller as to a plow, or to unhitch from the stump puller as from any other implement.

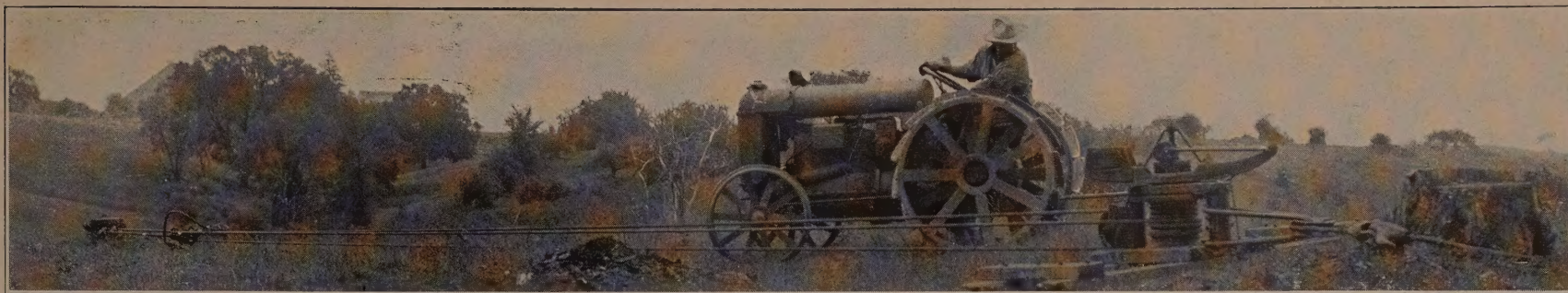
Third: As years of experience with hand and horse power pullers have taught that stump-anchored machines are the only practical and successful ones, it was necessary that the tractor puller be suitable for stump-anchoring.

Fourth: Use of the belt-drive pulley at the side of tractor for power proved impractical because of its high speed and also the fact that the relation or position of the tractor to puller would have to be kept stationary to keep the belt in line. As this relative position changes with every pull, the belt-drive idea had to be discarded.

Fifth: The machine must pull slowly and steadily while the stump comes out, for stumps cannot be pulled under high speed nor by sudden jerks. High speed pulling at such times causes breakage. Experience teaches that better results are obtained by stopping a few seconds every little while under a heavy strain, permitting the roots to snap and break loose and giving the earth a chance to adjust itself to the slowly rising stump.

Sixth: The driver must be able to operate both machines from his seat on the tractor, thus saving the expense of another man handling the clutches and cams on the puller.

Seventh: The driver must be able to remove king bolt and detach from the puller without leaving his seat, in order to drive down the field to pull hitches loose from pulled stumps, to drag out pull cable, or to move a stump out of the way. The tractor moves around much faster than a team in doing these jobs.



TRACTOR-DRIVE STUMP PULLER

Eighth: A stiff coupling, sufficiently flexible to meet the unevenness of the ground was essential, as the surface of the land sometimes slopes first one way, then another, and the tractor must go over both low and high places.

Ninth: It must not be necessary for the tractor to pass over pulling rope. A new automatic, multi-power, quick-acting clutch was required in order to permit the tractor to reverse at any time to starting point and then proceed with pulling again. This had to be possible without any handling of the puller or need of an operator at the machine. Moreover, it had to be fast and automatic, suitable for changing from forward to reverse action or vice-versa at many different points in the sweep circumference. This was one of the most essential and necessary requirements in the new puller.

Tenth: The complete outfit must be light enough and compact enough to be moved quickly and easily from one setting to another or from one field to another.

Eleventh: The machine must do the work at least as rapidly and efficiently as the Hercules horse power puller, and if possible more so.

Twelfth: For general farm use, there must be no unusual nor extraordinary increase in the price of the tractor-drive puller over a horse power machine of equal capacity and like equipment.

After repeated experiments and after discarding various unsuccessful designs, our engineers have at last perfected the Hercules Tractor-Drive Stump Puller and have succeeded in embodying in its construction all of the twelve essential principles outlined above. They have been particularly successful in their design of the automatic, quick-acting clutch, the smooth efficient action of which makes it a pleasure to operate the new machine. In addition to these features, other improvements have been devised. Moreover, the new Tractor Drive machines retain all the complete equipment and improved features of the Improved Horse Power Pullers. Designed for use with either tractor or team, they are the most efficient stump pullers made today.

All castings on the new Hercules Tractor Puller are made unbreakable, and the same broad three year guarantee against breakage is given on the Hercules Tractor-Drive machine as has been given for thirty years on the Hercules Horse Power Pullers.

HERCULES MANUFACTURING COMPANY.

HERCULES TRACTOR-DRIVE STUMP PULLER



HERCULES TRACTOR-DRIVE No. 150

No. 1 Hercules Steel New Model Machine with new multi-power automatic clutch; 150 ft. $\frac{3}{4}$ " Grand Prize pulling cable on drum, $\frac{7}{8}$ " Grand Prize loop anchor cable with interchangeable couplings, Steel Rope Hook, Double Power Pulley with 12 ft. 1" cable, hook attached. Improved Cam take-up with $\frac{3}{4}$ " steel cable, Patent Steel Stabilizer, Patent Steel Sweep Sector, factory-made sweep and truss rod, factory-made bed plate. Self-adjusting stiff steel hitching.

Catalogue price.....**\$385.00**

Code Name "Rigor"

Capacity, triple power—180,000 lbs.



HERCULES TRACTOR-DRIVE No. 250

No. 2 Hercules Steel New Model Machine with new multi-power automatic clutch; 150 ft. $\frac{7}{8}$ " Grand Prize Pulling Cable on drum, 1" Grand Prize loop anchor cable with interchangeable couplings, Steel Rope Hook, Double Power Pulley with 12 ft. $1\frac{1}{2}$ " cable, hook attached. Improved Cam take-up with $\frac{7}{8}$ " steel cable, Patent Steel Stabilizer, Patent Steel Sweep Sector, factory-made sweep and truss rod, factory-made bed plate, Self-adjusting stiff steel hitching.

Catalogue price.....**\$435.00**

Code Name "Roman"

Capacity, triple power—240,000 lbs.

A FEW IMPORTANT ADVANTAGES

It can be used with any make farm tractor, either wheel or caterpillar type.

It requires no changing or dismantling of the tractor. Hitch to the puller as you would hitch to a plow.

It is suitable for self-anchoring or stump anchoring.

No belts, sprockets, or drive chains are necessary. It is never necessary to drive the tractor over pulling rope.

On heavy pulls it operates slowly, permitting the small roots and ground to loosen, lightening the load, and on light pulls it operates at high speed.

One man operates both tractor and stump puller at same time from his seat on the tractor.

The driver can uncouple the tractor from puller without leaving his seat, when it is necessary to drag off cable or roll over a stump, then return, hitch to the puller, and proceed with the work.

It requires no walking around the sweep, following a team. In this respect it has the same advantage over the Horse power that a riding plow has over a walking plow.

The patent stiff coupling with flexible connection speeds up work on uneven land.

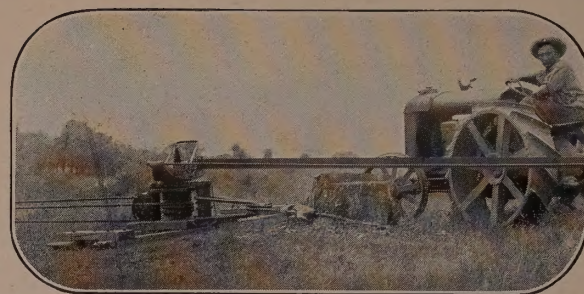
NEW MULTI-POWER AUTOMATIC CLUTCH

The new multi-power automatic clutch on the tractor puller works like a stem-winding watch. The same ratchet action enables the operator to drive the puller forward or backward at will. When he reaches the cable, he throws the tractor in reverse. The clutch on the puller reverses automatically. Then when desired, the driver throws the tractor back into gear and again winds up the cable, as the multi-clutch on the puller, working automatically, engages itself and again takes up the load.

Bulletin No. 6

HERCULES MANUFACTURING COMPANY

CENTERVILLE, IOWA, U. S. A.



HERCULES TRACTOR-DRIVE No. 350

No. 3 Hercules Steel New Model Machine with new multi-power automatic clutch, 150 ft. 1" Grand Prize pulling cable on drum, $1\frac{1}{8}$ " Grand Prize loop anchor cable with interchangeable couplings, Steel rope hook, Double Power Pulley with 15 ft. $1\frac{1}{4}$ " cable, hook attached. Improved Cam take-up with 1" steel cable, Patent Steel Stabilizer, Patent Steel Sweep Sector, factory-made sweep and truss rod, factory-made bed plate. Self-adjusting stiff steel hitching.

Catalogue price.....**\$500.00**

Code Name "Ruse"

Capacity, triple power—300,000 lbs.



HERCULES TRACTOR-DRIVE No. 450

No. 4 Hercules Steel New Model Machine with new multi-power automatic clutch, 150 ft. $1\frac{1}{8}$ " Grand Prize pulling cable on drum, $1\frac{1}{4}$ " Grand Prize loop anchor cable with interchangeable couplings, steel rope hook, Double Power Pulley with 20 ft. $1\frac{1}{2}$ " cable, hook attached. Improved Cam take-up with $1\frac{1}{8}$ " steel cable, Patent Steel Stabilizer, Patent Steel Sweep Sector, factory-made sweep and truss rod, factory-made bed plate. Self-adjusting stiff steel hitching.

Catalogue price.....**\$580.00**

Code Name "Rate"

Capacity, triple power—380,000 lbs.